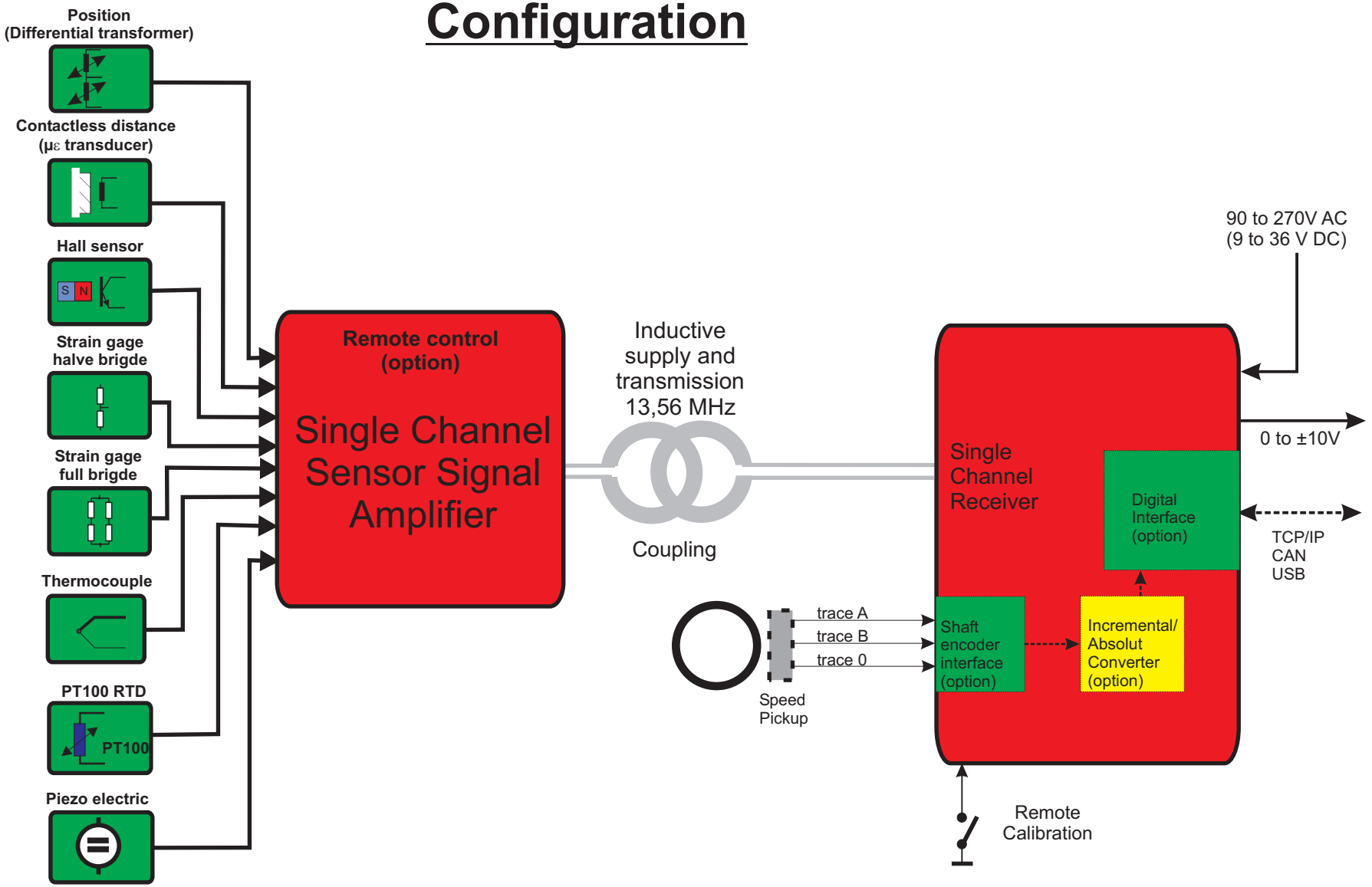
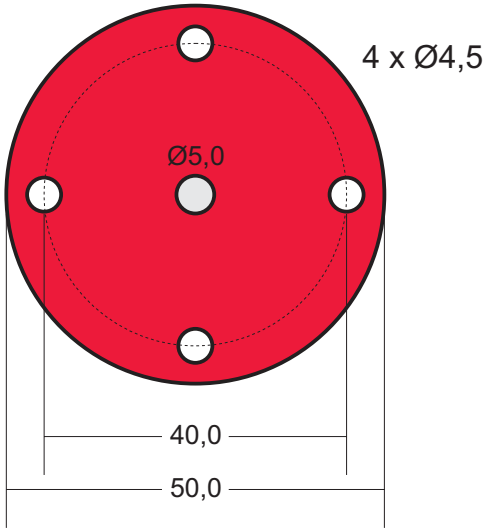
Inductive Sensortelemetry
1 Channel Sensor Signal Amplifiers and Receivers

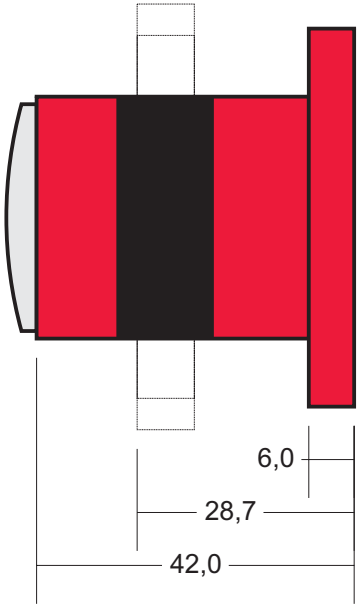
Page 2 .....Configuration
Page 3 ... 21 .....Sensor signal amplifier
Page 22 ... 30 .....Receiver

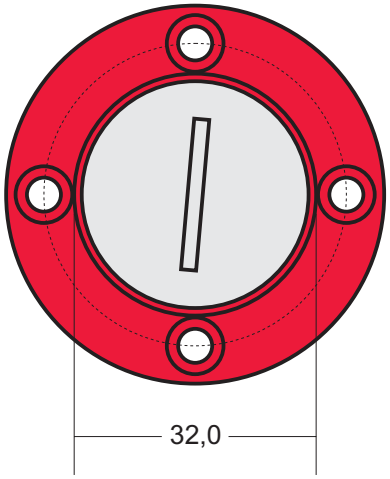
Configuration

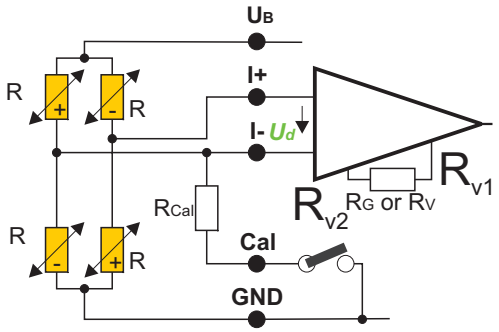


Sensor Signal Amplifier Type 2a









1 Channel FM/PCM Transmitter

For strain gage, PT100, Thermocouple
Sensitivity: 0,02 mV/V to 20 mV/V
Bandwidth: 0 (10) Hz to 50 kHz
Strain gage brigde supply: 2,5 V (3,3 V*)
Strain gage bridge resistance: 350 (120, 1000) Ω
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Zero point drift: 0,02, (0,01, 0,003 option)
Remote shunt calibration
Remote gain, zero, auto zero with 16 Bit resolution (option)
additonal temperature channel (option)
Enviromental temperature range: -25 to +85°C (125°C, 150°C)
Max load: 50 000 g (depending on fixing)
Type: SV_2a_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

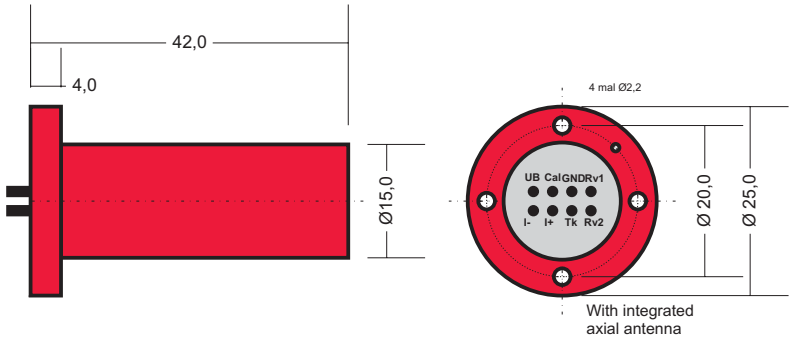
1 kHz	0,02	85	FM	-
10 kHz	0,01	125	PCM16	RMC
40 kHz	0,003	150		
		160		

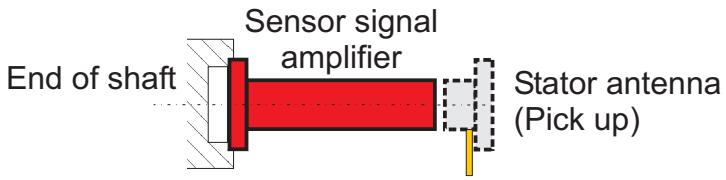
*** PCM-Version**

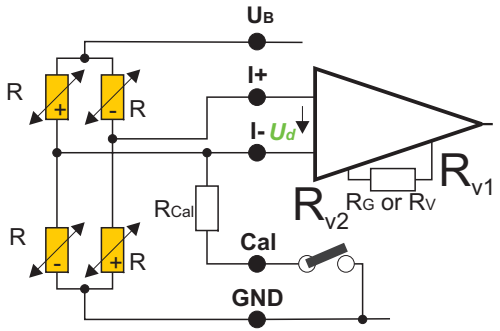
Sensor Signal Amplifier Type 2b (End of shaft, Cartridge, Turbine)

integrated rotor coil

Weight: about 10g







1 Channel FM/PCM Transmitter

For strain gage, PT100, Thermocouple
Sensitivity: 0,02 mV/V to 20 mV/V
Bandwidth: 0 (10) Hz to 50 kHz
Strain gage brigde supply: 2,5 V (3,3 V*)
Strain gage bridge resistance: 350 (120, 1000) Ω
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Zero point drift: 0,02, (0,01, 0,003 option)
Remote shunt calibration
Remote gain, zero, auto zero with 16 Bit resolution (option)
additonal temperature channel (option)
Enviromental temperature range: -25 to +85°C (125°C, 150°C)
Max load: 50 000 g (depending on fixing)
Type: SV_2b_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

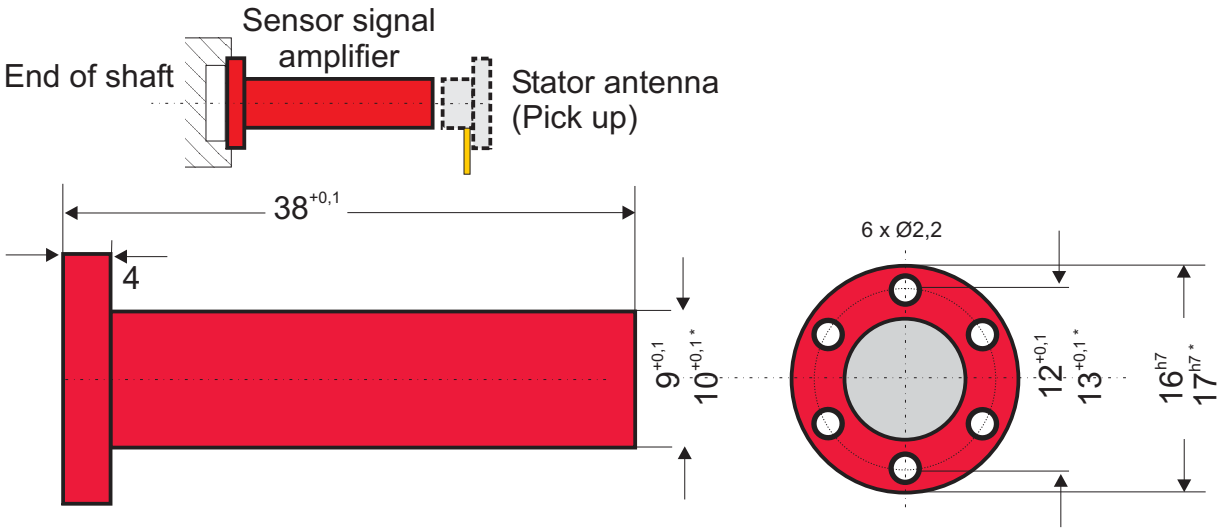
1 kHz	0,02	85	FM	-
10 kHz	0,01	125	PCM16	RMC
40 kHz	0,003	150		
		160		

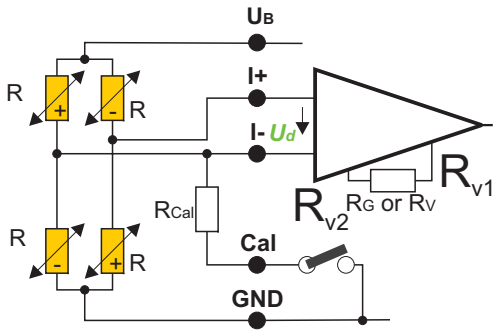
*** PCM-Version**

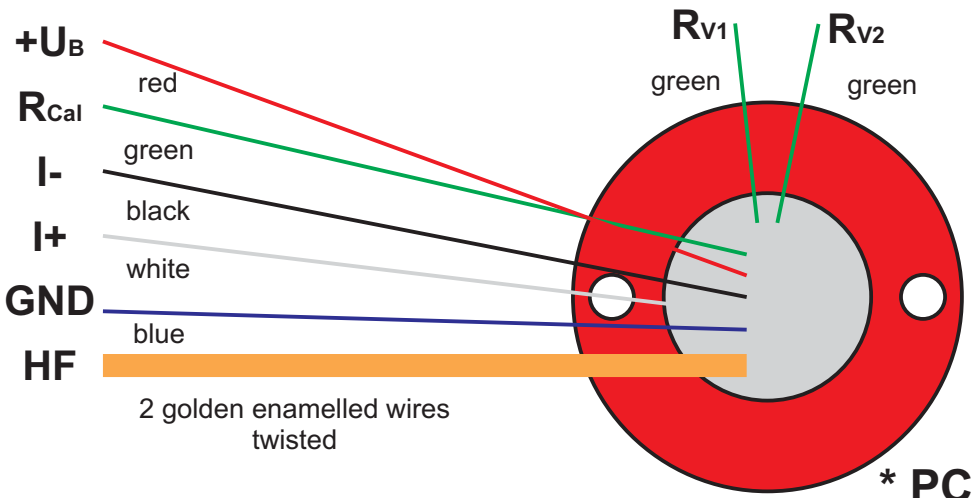
Gewicht: 15 g
Trägheitsmoment: 4,2E-7 kgm²

MANNER® Sensortelemetrie

Sensor Signal Amplifier Type 2c (End of shaft, Cartridge, Turbine)







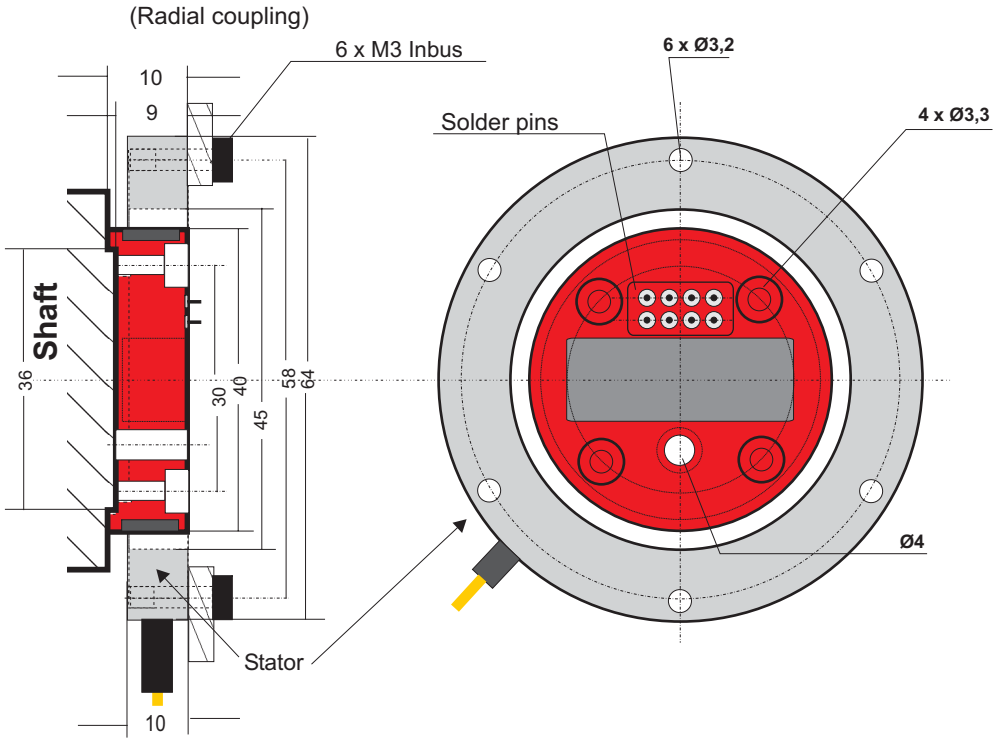
1 Channel FM/PCM Transmitter

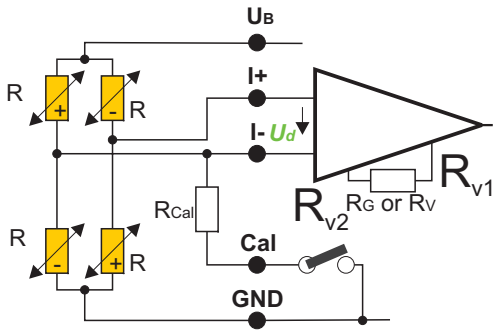
- For strain gage, PT100, Thermocouple
- Sensitivity: 0,02 mV/V to 20 mV/V
- Bandwidth: 0 (10) Hz to 50 kHz
- Strain gage brigde supply: 2,5 V (3,3 V*)
- Strain gage bridge resistance: 350 (120, 1000) Ω
- Transmission: inductive sensortelemetry FM, PCM
- Integrated filter
- Resolution: 14 Bits, 16 Bits*
- Zero point drift: 0,02, (0,01, 0,003 option)
- Remote shunt calibration
- Remote gain, zero, auto zero with 16 Bit resolution (option)
- additonal temperature channel (option)
- Enviromental temperature range: -25 to +85°C (125°C, 150°C)
- Max load: 50 000 g (depending on fixing)
- Type: SV_2c_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

1 kHz	0,02	85	FM	-
10 kHz	0,01	125	PCM16	RMC
40 kHz	0,003	150		
		160		

*** PCM-Version**

Sensor Signal Amplifier Type 2d (Disk, End of shaft, Small space)





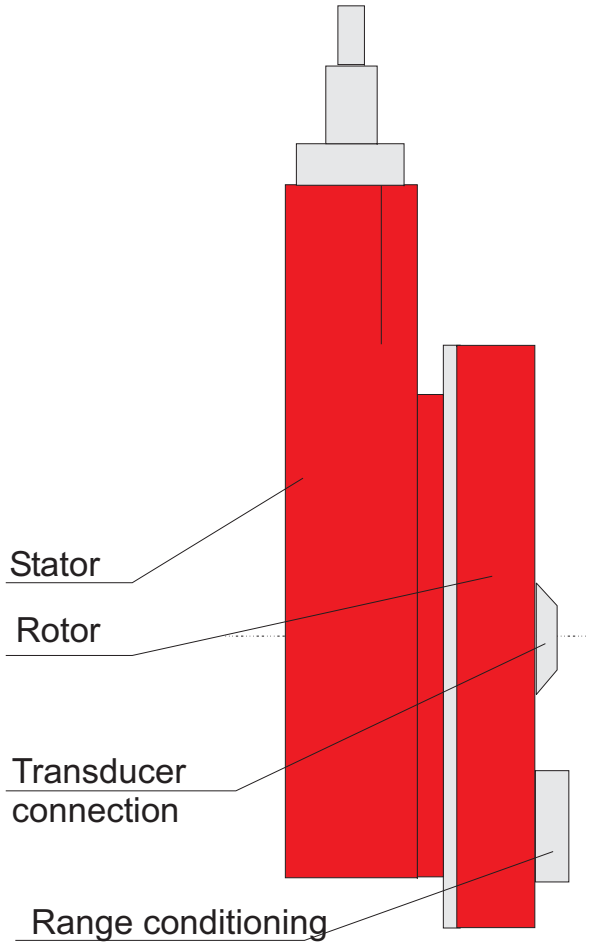
1 Channel FM/PCM Transmitter

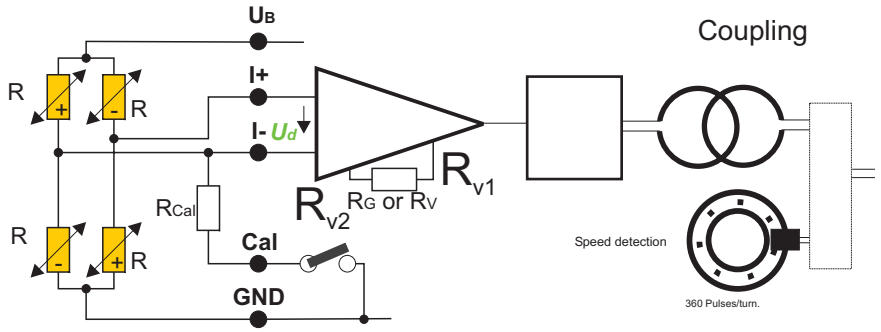
For strain gage, PT100, Thermocouple
Sensitivity: 0,02 mV/V to 20 mV/V
Bandwidth: 0 (10) Hz to 50 kHz
Strain gage brigde supply: 6 V (3,3 V*)
Strain gage bridge resistance: 1000 Ω
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Zero point drift: 0,02, (0,01, 0,003* option)
Remote shunt calibration
Enviromental temperature range: -25 to +85°C (125°C, 160°C)
Max load: 50 000 g (max. speed: 30 0000 RPM)
Type: SV_2d_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

1 kHz	0,02	85	FM	-
10 kHz	0,01	125	PCM16	RMC
40 kHz	0,003	160		

*** PCM-Version**

Wheel Transmitter with integrated Signal Amplifier Type 2e





1 Channel FM/PCM Transmitter

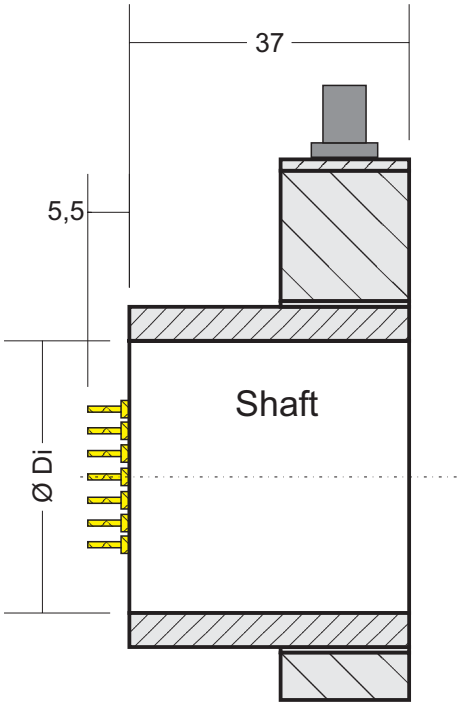
Beared wheel transmitter
For strain gage, PT100, Thermocouple
Sensitivity: 0,02 mV/V to 20 mV/V
Bandwidth: 0 (10) Hz to 50 kHz
Strain gage brigde supply: 6 V (3,3 V*)
Strain gage bridge resistance: 120, 350, 1000 Ω
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Zero point drift: 0,02, (0,01, 0,003* option)
Remote shunt calibration
Speed detection: 360 pulses/turn
Enviromental temperature range: -25 to +85°C (125°C, 160°C)
Max load: 5 000 g (max. speed:10 000 RPM)
Type: SV_2e_<bandwidth>_<accuracy>_<temp>_<mod>_<RPM>

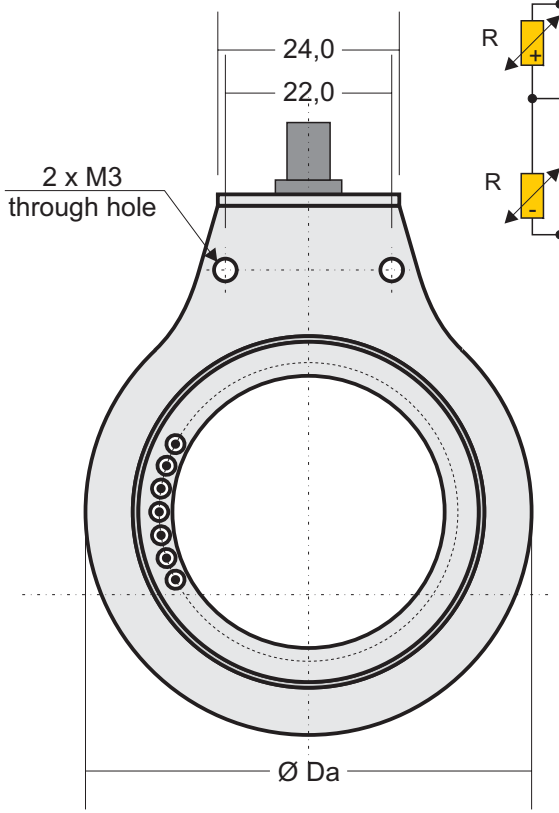
1 kHz	0,02	85	FM	90
10 kHz	0,01	125	PCM16	180
40 kHz	0,003	160		360

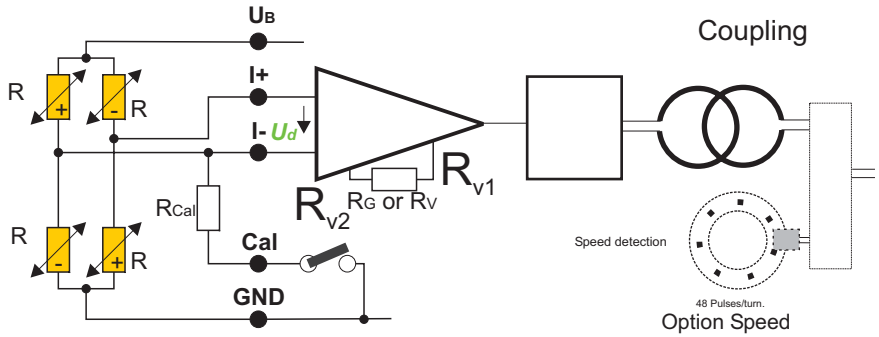
For more information see section: Universal shaft transmitter

Universal Shaft Transmitter with Sensor Signal Amplifier Type 2_Lager

(non divisible, 1 channel,with/without RMC, without rpm sensor)







1 Channel FM/PCM Transmitter

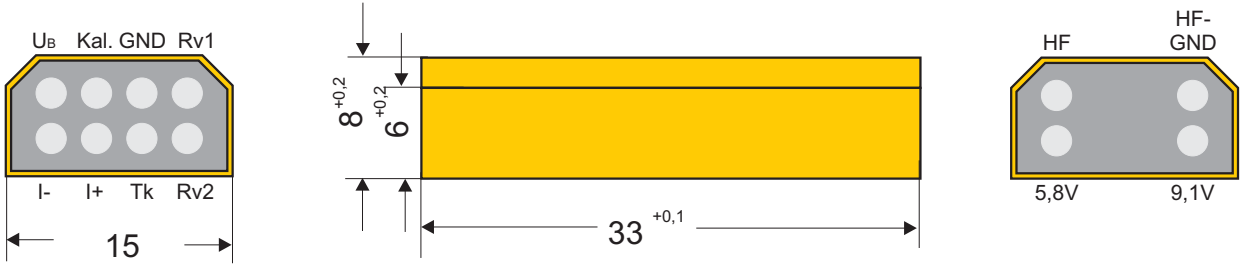
Type: SV_2Lager_<Di>_<Da>_<temperatur range>_<PCM>_<IP65>

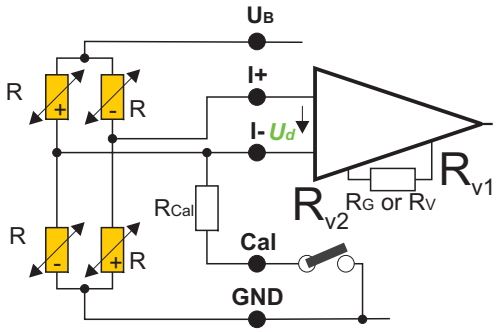
in mm	in mm		
36	59	-10 to 85°C	PCM
41	65	-25 to 125°C	
46	69	-45 to 85°C	
51	75	-45 to 125°C	
56	79	-25 to 160°C	
61	85		

For more information see section: Universal shaft transmitter

Sensor Signal Amplifier Type 3a

Weight: about 10g





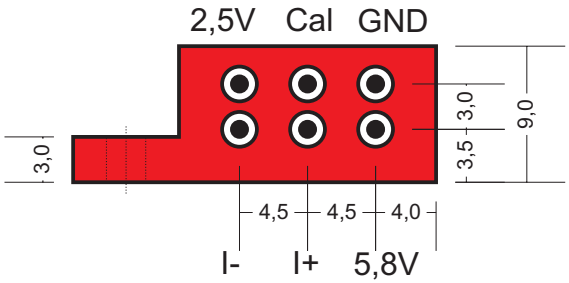
1 Channel FM/PCM Transmitter

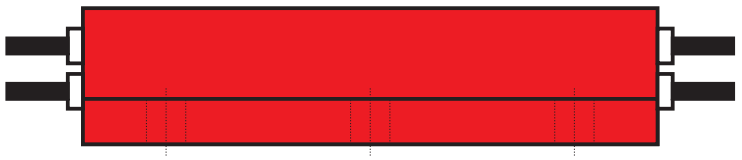
For strain gage, PT100, Thermocouple
Sensitivity: 0,02 mV/V to 20 mV/V
Bandwidth: 0 (10) Hz to 50 kHz
Strain gage brigde supply: 2,5 V (3,3 V*)
Strain gage bridge resistance: 350 (120, 1000) Ω
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Zero point drift: 0,02, (0,01, 0,003 option)
Remote shunt calibration
Remote gain, zero, auto zero with 16 Bit resolution (option)
additonal temperature channel (option)
Enviromental temperature range: -25 to +85°C (125°C, 150°C)
Max load: 50 000 g (depending on fixing)
Type: SV_3a_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

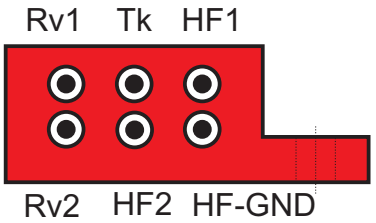
1 kHz	0,02	85	FM	-
10 kHz	0,01	125	PCM16	RMC
40 kHz	0,003	150		
		160		

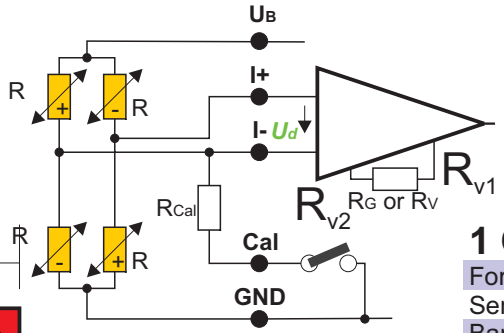
*** PCM-Version**

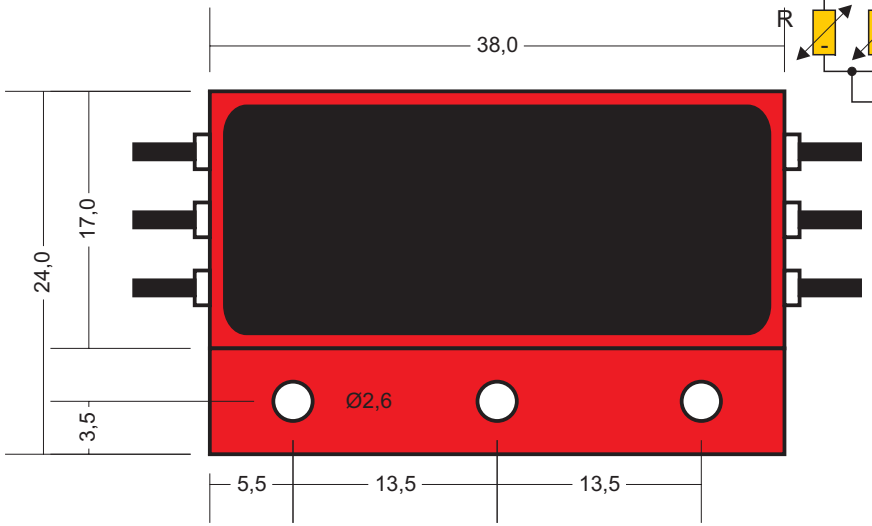
Sensor Signal Amplifier Type 3B











1 Channel FM/PCM Transmitter

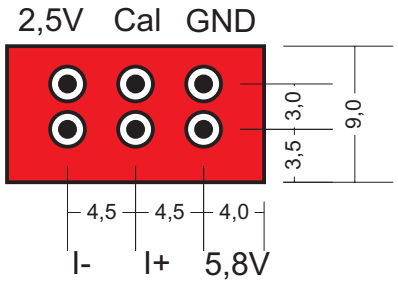
- For strain gage, PT100, Thermocouple
- Sensitivity: 0,02 mV/V to 20 mV/V
- Bandwidth: 0 (10) Hz to 50 kHz
- Strain gage brigde supply: 2,5 V (3,3 V*)
- Strain gage bridge resistance: 350 (120, 1000) Ω
- Transmission: inductive sensortelemetry FM, PCM
- Integrated filter
- Resolution: 14 Bits, 16 Bits*
- Zero point drift: 0,02, (0,01, 0,003 option)
- Remote shunt calibration
- Remote gain, zero, auto zero with 16 Bit resolution (option)
- additonal temperature channel (option)
- Enviromental temperature range: -25 to +85°C (125°C, 150°C)
- Max load: 50 000 g (depending on fixing)
- Type: SV_3b_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

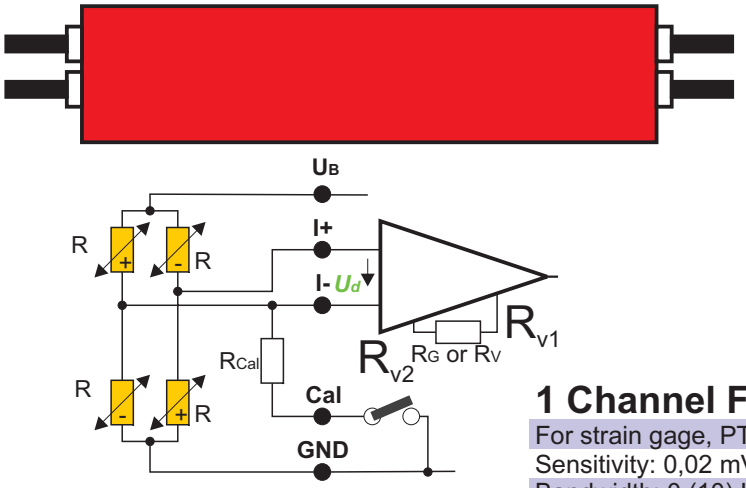
1 kHz	0,02	85	FM	-
10 kHz	0,01	125	PCM16	RMC
40 kHz	0,003	150		
		160		

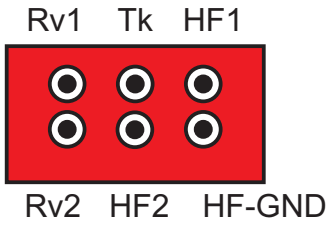
*** PCM-Version**

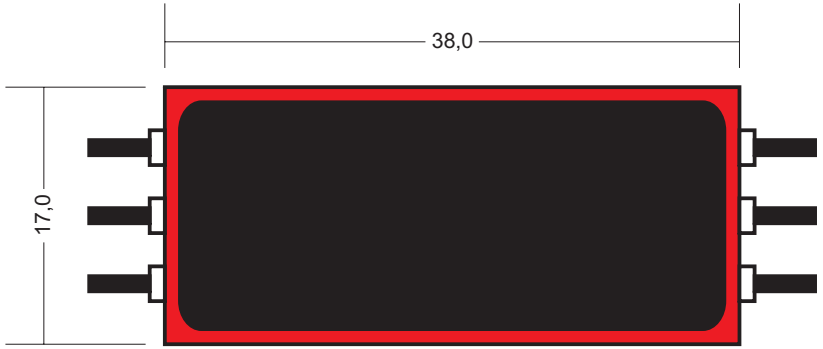
Sensor Signal Amplifier Type 3C

Weight: about 12g









1 Channel FM/PCM Transmitter

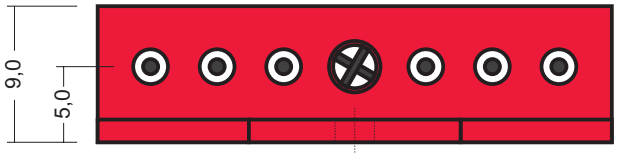
For strain gage, PT100, Thermocouple
Sensitivity: 0,02 mV/V to 20 mV/V
Bandwidth: 0 (10) Hz to 50 kHz
Strain gage brigde supply: 2,5 V (3,3 V*)
Strain gage bridge resistance: 350 (120, 1000) Ω
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Zero point drift: 0,02, (0,01, 0,003 option)
Remote shunt calibration
Remote gain, zero, auto zero with 16 Bit resolution (option)
additonal temperature channel (option)
Enviromental temperature range: -25 to +85°C (125°C, 150°C)
Max load: 50 000 g (depending on fixing)
Type: SV_3c_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

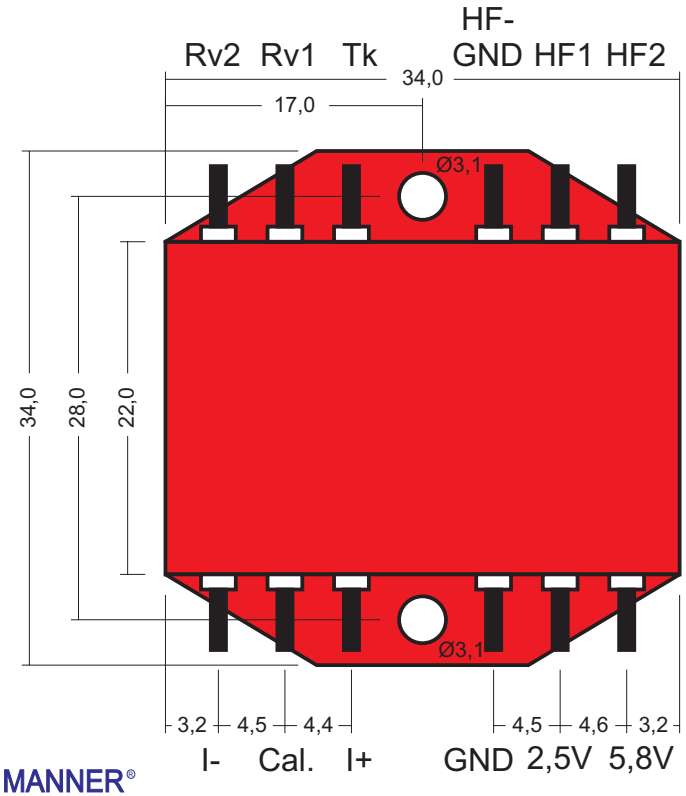
1 kHz	0,02	85	FM	-
10 kHz	0,01	125	PCM16	RMC
40 kHz	0,003	150		
		160		

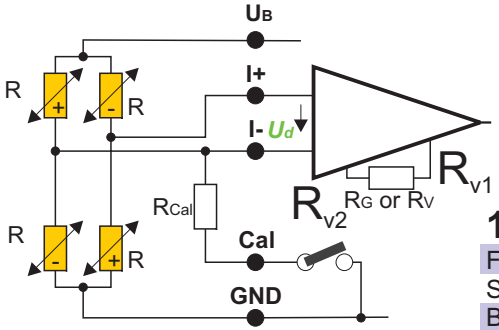
*** PCM-Version**

Sensor Signal Amplifier Type 4a

Weight: about 15g







1 Channel FM/PCM Transmitter

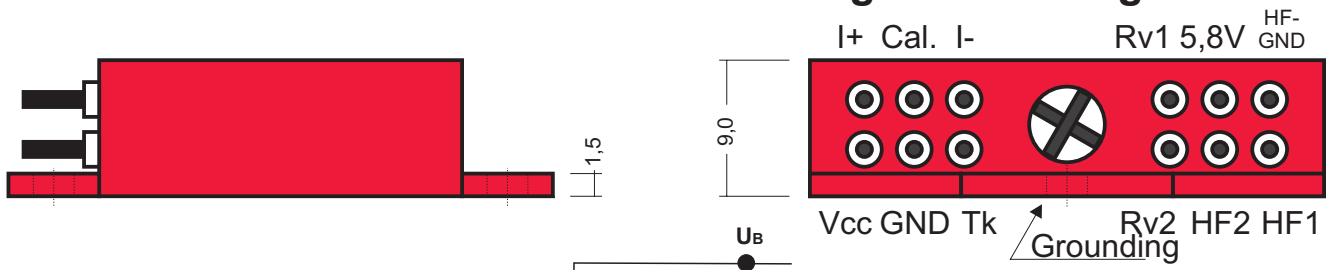
For strain gage, PT100, Thermocouple
Sensitivity: 0,02 mV/V to 20 mV/V
Bandwidth: 0 (10) Hz to 50 kHz
Strain gage brigde supply: 2,5 V (3,3 V*)
Strain gage bridge resistance: 350 (120, 1000) Ω
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Zero point drift: 0,02, (0,01, 0,003 option)
Remote shunt calibration
Remote gain, zero, auto zero with 16 Bit resolution (option)
additonal temperature channel (option)
Enviromental temperature range: -25 to +85°C (125°C, 150°C)
Max load: 50 000 g (depending on fixing)
Type: SV_4a_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

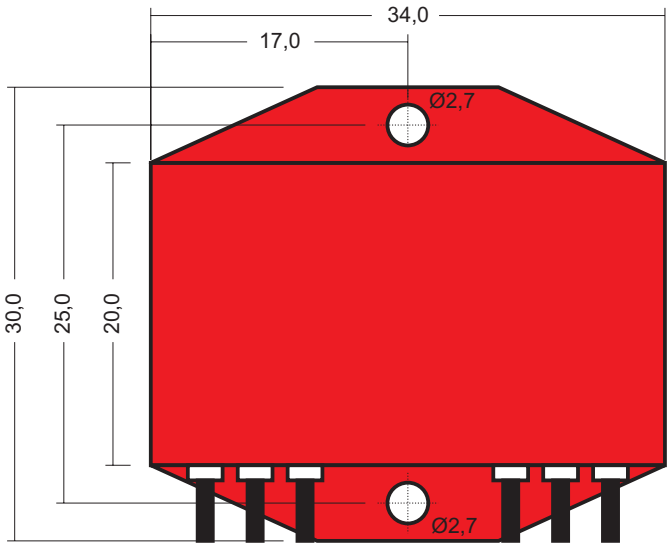
1 kHz	0,02	85	FM	-
10 kHz	0,01	125	PCM16	RMC
40 kHz	0,003	150		
		160		

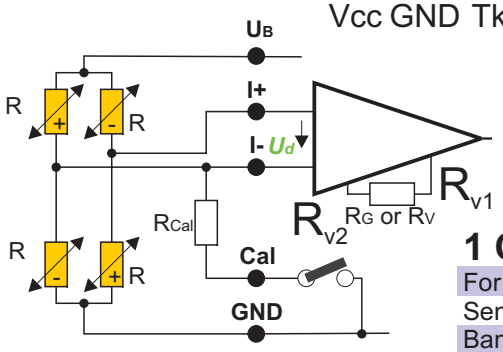
*** PCM-Version**

Sensor Signal Amplifier Type 4b

Weight: about 12g







1 Channel FM/PCM Transmitter

For strain gage, PT100, Thermocouple
Sensitivity: 0,02 mV/V to 20 mV/V
Bandwidth: 0 (10) Hz to 50 kHz
Strain gage brigde supply: 2,5 V (3,3 V*)
Strain gage bridge resistance: 350 (120, 1000) Ω
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Zero point drift: 0,02, (0,01, 0,003 option)
Remote shunt calibration
Remote gain, zero, auto zero with 16 Bit resolution (option)
additonal temperature channel (option)
Enviromental temperature range: -25 to +85°C (125°C, 150°C)
Max load: 50 000 g (depending on fixing)
Type: SV_4b_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

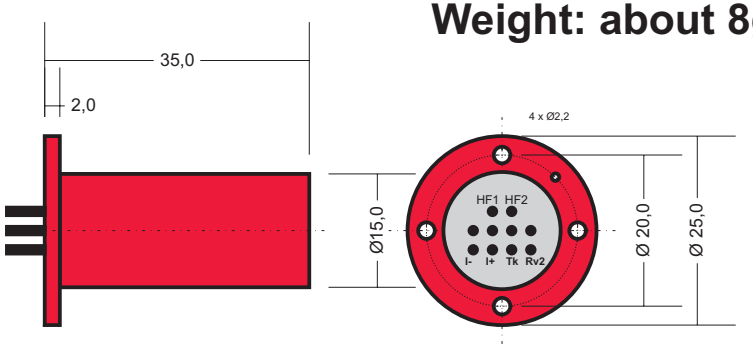
1 kHz	0,02	85	FM	-
10 kHz	0,01	125	PCM16	RMC
40 kHz	0,003	150		
		160		

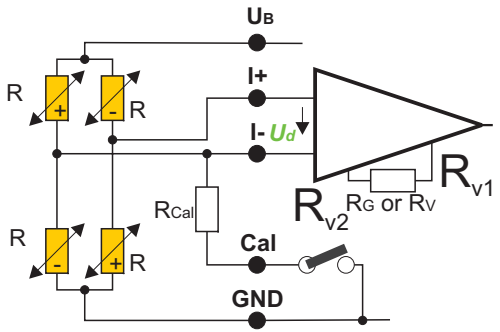
*** PCM-Version**

Sensor Signal Amplifier Type 5a

(Standard)

Weight: about 8g





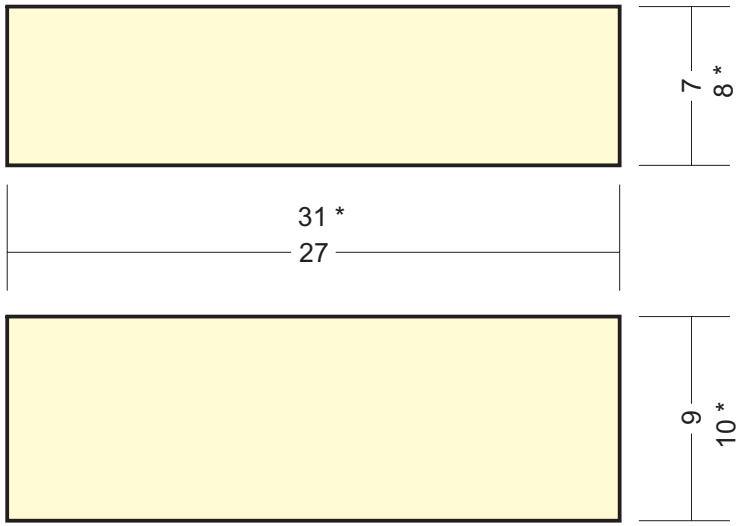
1 Channel FM/PCM Transmitter

For strain gage, PT100, Thermocouple
Sensitivity: 0,02 mV/V to 20 mV/V
Bandwidth: 0 (10) Hz to 50 kHz
Strain gage brigde supply: 2,5 V (3,3 V*)
Strain gage bridge resistance: 350 (120, 1000) Ω
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Zero point drift: 0,02, (0,01, 0,003 option)
Remote shunt calibration
Remote gain, zero, auto zero with 16 Bit resolution (option)
additonal temperature channel (option)
Enviromental temperature range: -25 to +85°C (125°C, 150°C)
Max load: 50 000 g (depending on fixing)
Type: SV_5a_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

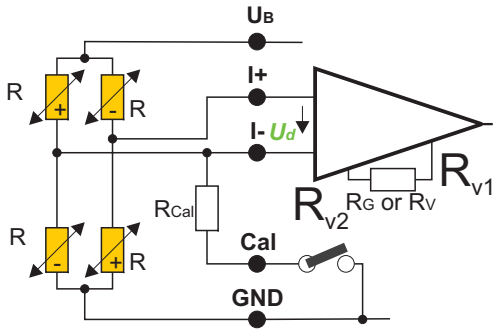
1 kHz	0,02	85	FM	-
10 kHz	0,01	125	PCM16	RMC
40 kHz	0,003	150		

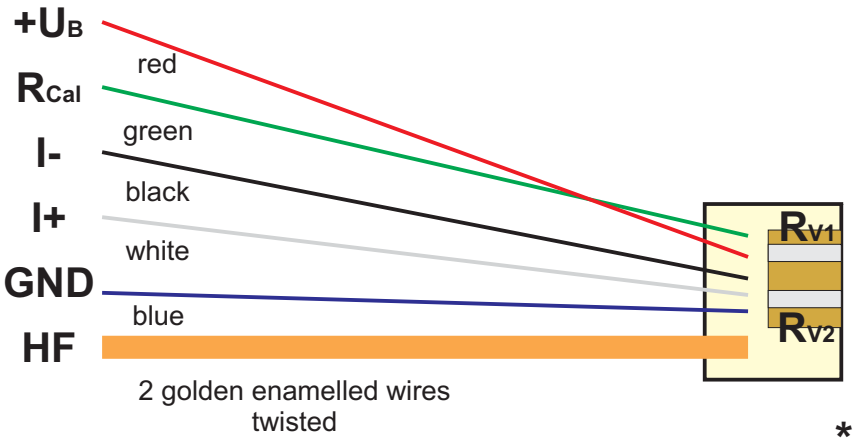
*** PCM-Version**

Sensor Signal Amplifier Type 7a (Miniature Flatchip)



Weight:
Epoxy: about 3g





1 Channel FM/PCM Transmitter

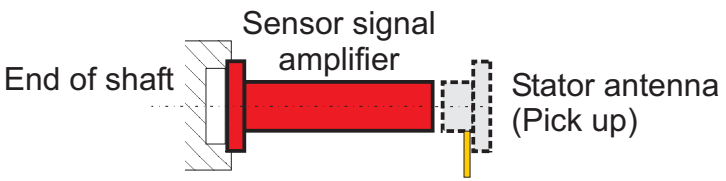
For strain gage, PT100, Thermocouple	
Sensitivity: 0,02 mV/V to 20 mV/V	
Bandwidth: 0 (10) Hz to 50 kHz	
Strain gage brigde supply: 2,5 V (3,3 V*)	
Strain gage bridge resistance: 1000 Ω	
Transmission: inductive sensortelemetry FM, PCM	
Integrated filter	
Resolution: 14 Bits, 16 Bits*	
Zero point drift: 0,02, (0,01, 0,003* option)	
Remote shunt calibration	
Enviromental temperature range: -25 to +85°C (125°C, 150°C)	
Max load: 50 000 g (depending on fixing)	
Type: SV_7a_<bandwidth>_<accuracy>_<temp>_<mod>	

1 kHz	0,02	85	FM
10 kHz	0,01	125	PCM16
40 kHz	0,003	150	

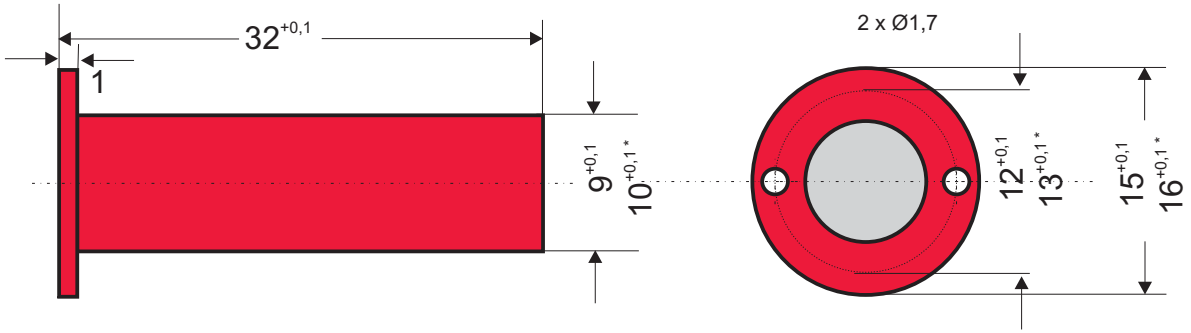
*** PCM-Version**

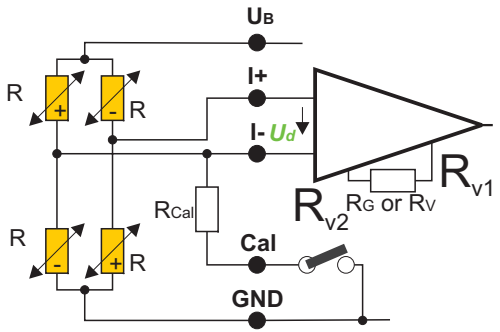
MANNER® Sensortelemetrie

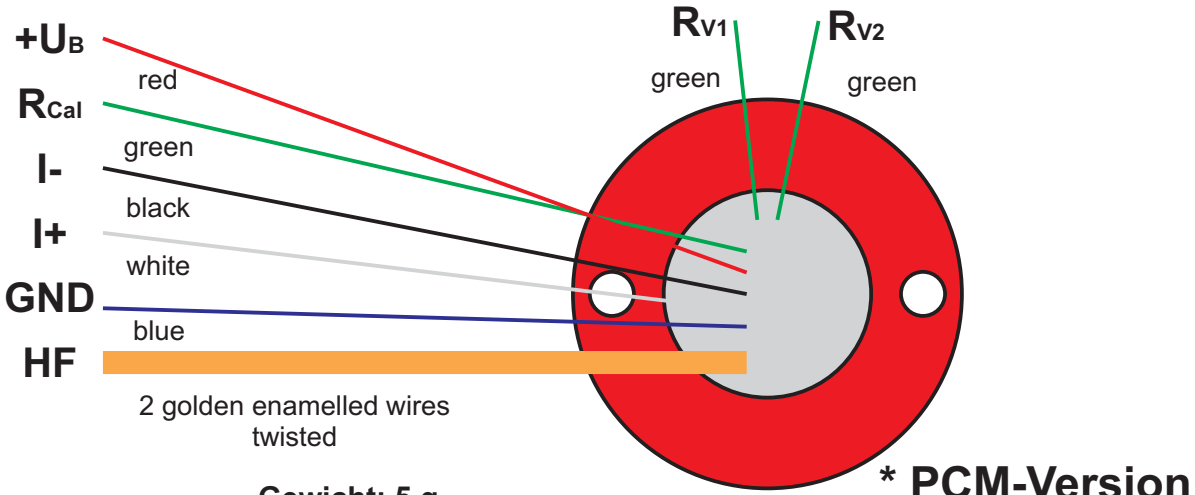
Sensor Signal Amplifier Type 7b (Miniature Patrone)



integrated rotor coil







*** PCM-Version**

1 Channel FM/PCM Transmitter

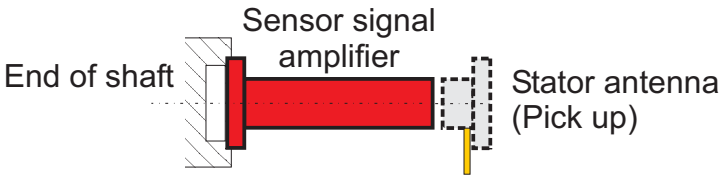
For strain gage, PT100, Thermocouple	
Sensitivity: 0,02 mV/V to 20 mV/V	
Bandwidth: 0 (10) Hz to 50 kHz	
Strain gage brigde supply: 6 V (3,3 V*)	
Strain gage bridge resistance: 1000 Ω	
Transmission: inductive sensortelemetry FM, PCM	
Integrated filter	
Resolution: 14 Bits, 16 Bits*	
Zero point drift: 0,02, (0,01, 0,003* option)	
Remote shunt calibration	
Enviromental temperature range: -25 to +85°C (125°C, 160°C)	
Max load: 150 000 g (depending on fixing)	
Type: SV_7b_<bandwidth>_<accuracy>_<temp>_<mod>	

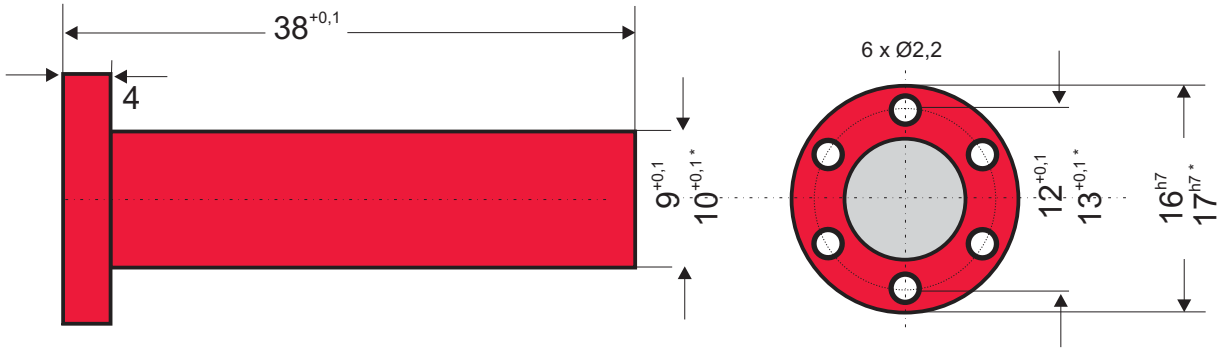
1 kHz	0,02	85	FM
10 kHz	0,01	125	PCM16
40 kHz	0,003	160	

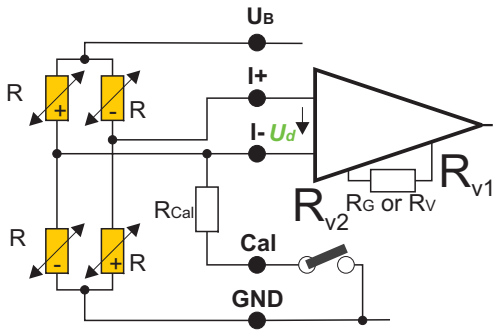
Gewicht: 5 g
Trägheitsmoment: 1,5E-8 kgm²

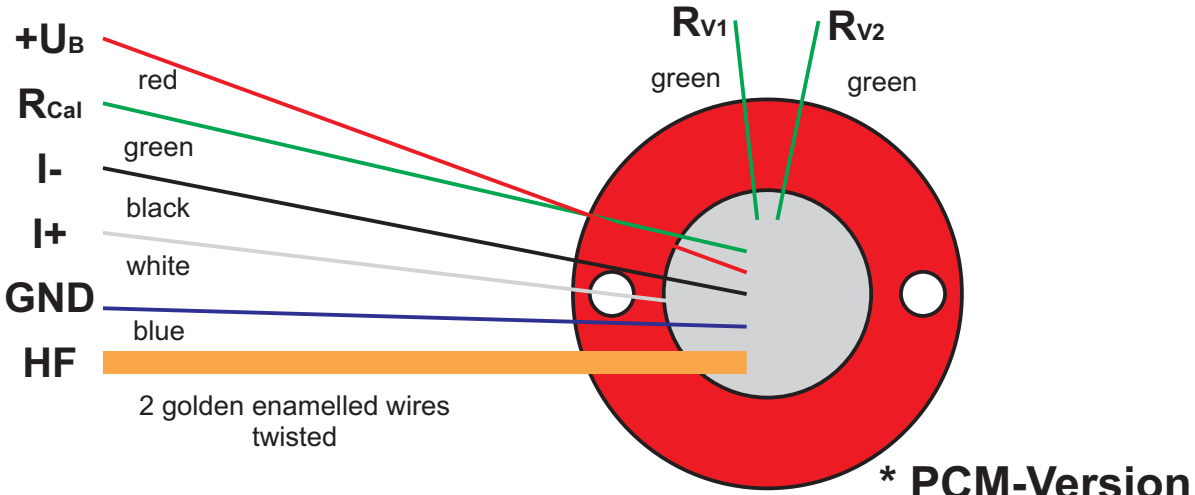
MANNER® Sensortelemetrie

Sensor Signal Amplifier Type 7c (Miniature Cartrige, Turbine)









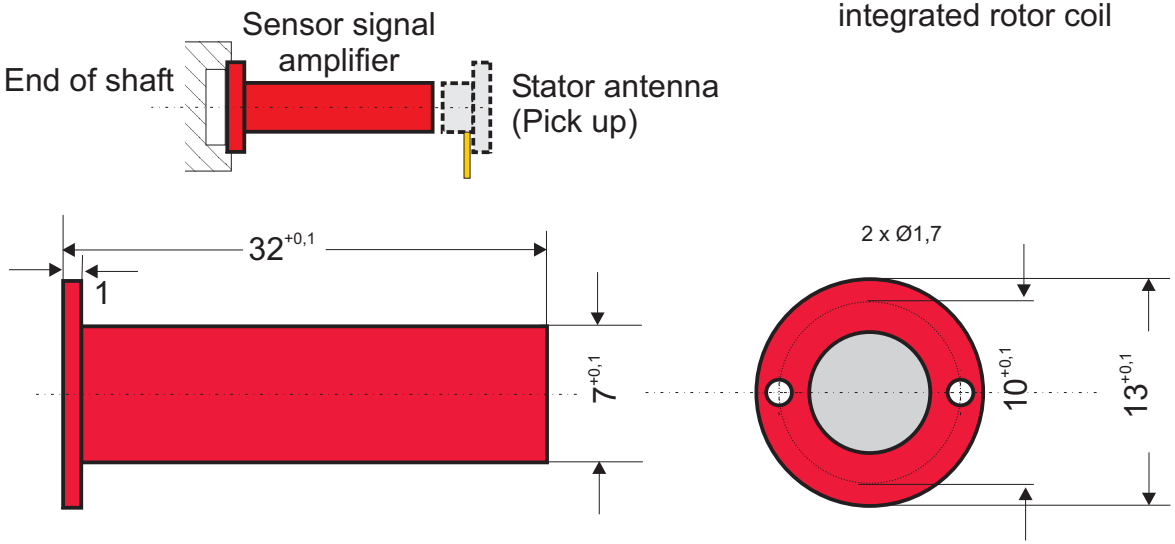
1 Channel FM/PCM Transmitter

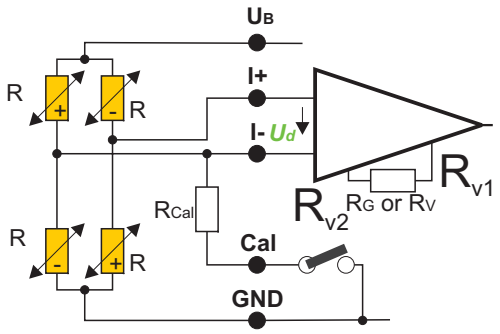
For strain gage, PT100, Thermocouple	
Sensitivity: 0,02 mV/V to 20 mV/V	
Bandwidth: 0 (10) Hz to 50 kHz	
Strain gage brigde supply: 6 V (3,3 V*)	
Strain gage bridge resistance: 1000 Ω	
Transmission: inductive sensortelemetry FM, PCM	
Integrated filter	
Resolution: 14 Bits, 16 Bits*	
Zero point drift: 0,02, (0,01, 0,003* option)	
Remote shunt calibration	
Enviromental temperature range: -25 to +85°C (125°C, 160°C)	
Max load: 150 000 g (depending on fixing)	
Type: SV_7c_<bandwidth>_<accuracy>_<temp>_<mod>	

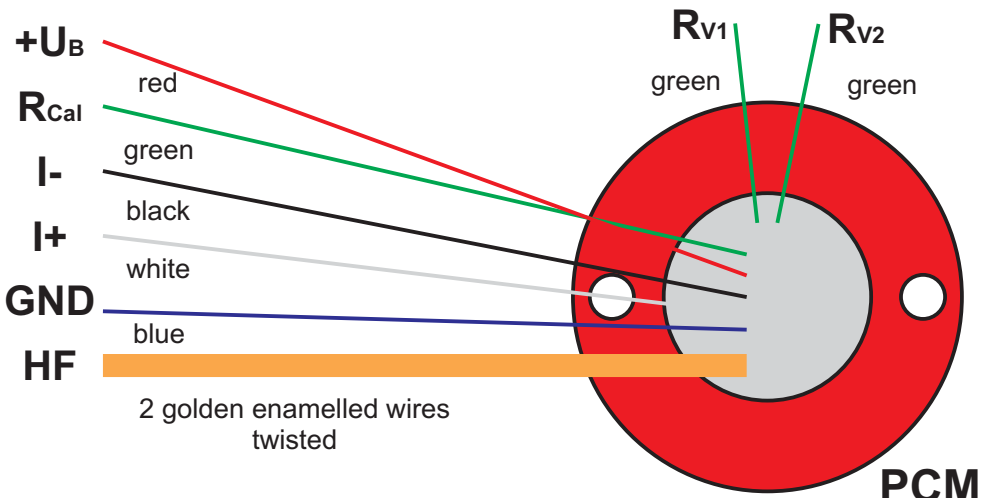
1 kHz	0,02	85	FM
10 kHz	0,01	125	PCM16
40 kHz	0,003	160	

*** PCM-Version**

Sensor Signal Amplifier Type 7e (Superminiature Patrone)







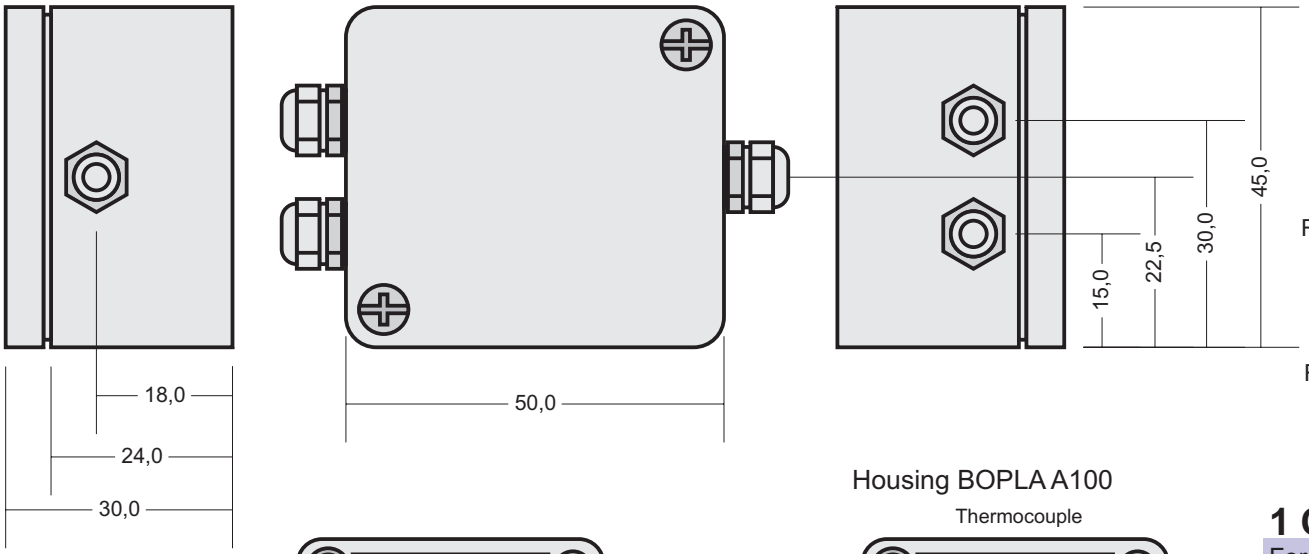
PCM-Version

1 Channel PCM Transmitter

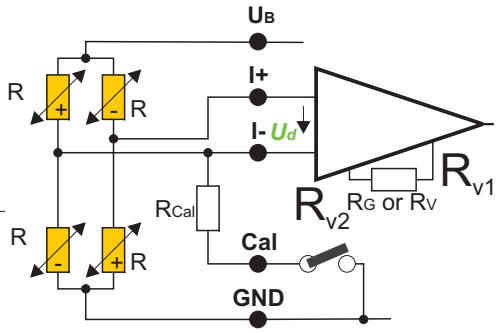
For strain gage, PT100, Thermocouple	
Sensitivity: 0,02 mV/V to 20 mV/V	
Bandwidth: 0 (10) Hz to 50 kHz	
Strain gage brigde supply: 6 V (3,3 V)	
Strain gage bridge resistance: 1000 Ω	
Transmission: inductive sensortelemetry FM, PCM	
Integrated filter	
Resolution: 16 Bits	
Zero point drift: 0,02, (0,01, 0,003* option)	
Remote shunt calibration	
Enviromental temperature range: -25 to +85°C (125°C, 160°C)	
Max load: 150 000 g (depending on fixing)	
Type: SV_7e_<bandwidth>_<accuracy>_<temp>_<mod>	

1 kHz	0,02	85	FM
10 kHz	0,01	125	PCM16
40 kHz	0,003	160	

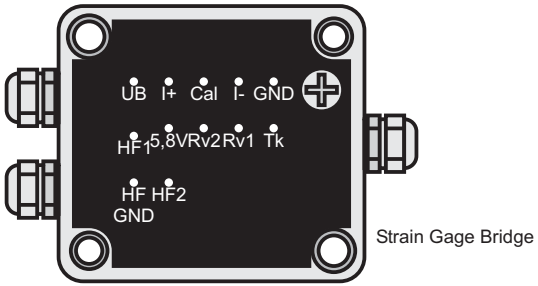
Sensor Signal Amplifier Type 8



*** PCM-Version**

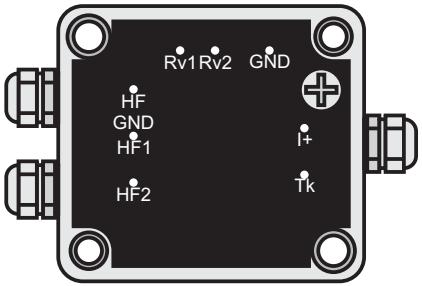


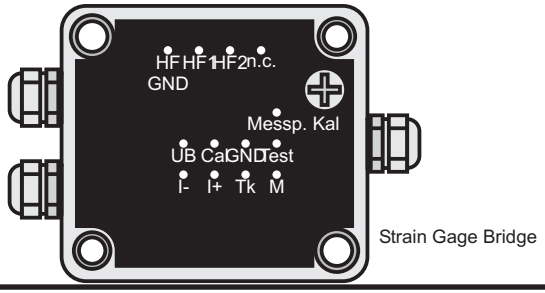
Housing BOPLA A100



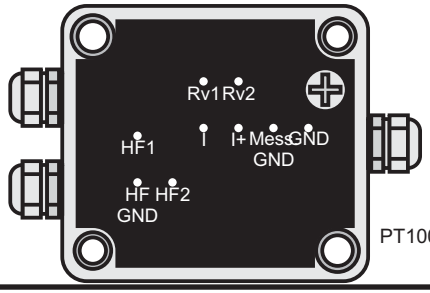
Strain Gage Bridge

Thermocouple





Strain Gage Bridge



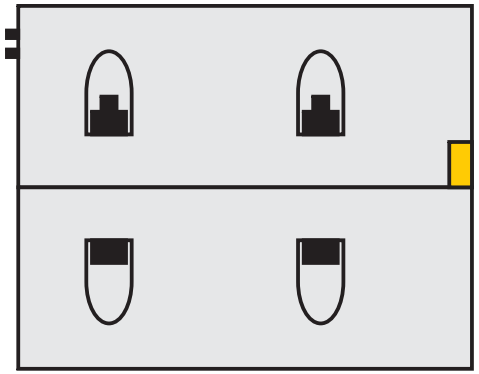
PT100

1 Channel FM/PCM Transmitter

- For strain gage, PT100, Thermocouple
- Sensitivity: 0,02 mV/V to 20 mV/V
- Bandwidth: 0 (10) Hz to 50 kHz
- Strain gage brigde supply: 6 V (3,3 V*)
- Strain gage bridge resistance: 1000 Ω
- Transmission: inductive sensortelemetry FM, PCM
- Integrated filter
- Resolution: 14 Bits, 16 Bits*
- Zero point drift: 0,02, (0,01, 0,003* option)
- Remote shunt calibration
- Remote gain, zero, auto zero with 16 Bit resolution (option)
- additonal temperature channel (option)
- Enviromental temperature range: -25 to +85°C (125°C, 150°C)
- Max load: 50 000 g (depending on fixing)
- Type: SV_8_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

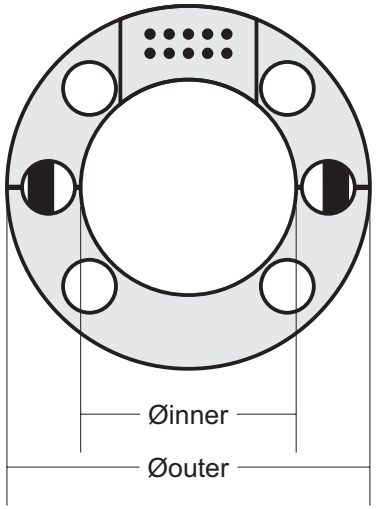
1 kHz	0,02	85	FM	-
10 kHz	0,01	125	PCM16	RMC
40 kHz	0,003	150		

Sensor Signal Amplifier Type 9

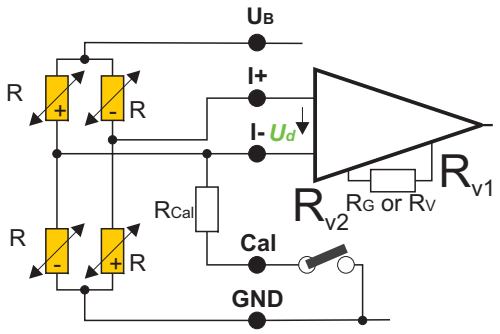


M3 Inbus

Through hole
Ø = 7 mm for weight reduction



Inner diameter: 17 to 50 mm
Outer diameter = Inner diameter + 20 mm



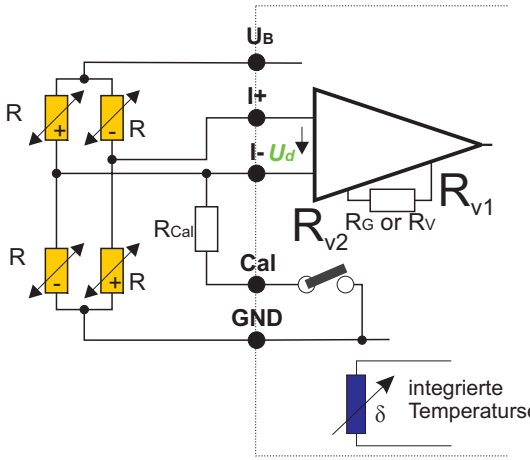
1 Channel FM/PCM Transmitter

For strain gage, PT100, Thermocouple
Sensitivity: 0,02 mV/V to 20 mV/V
Bandwidth: 0 (10) Hz to 50 kHz
Strain gage brigde supply: 6 V (3,3 V*)
Strain gage bridge resistance: 1000 Ω
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Zero point drift: 0,02, (0,01, 0,003* option)
Remote shunt calibration
Enviromental temperature range: -25 to +85°C (125°C, 150°C)
Max load: 50 000 g (depending on fixing)
Type: SV_9_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

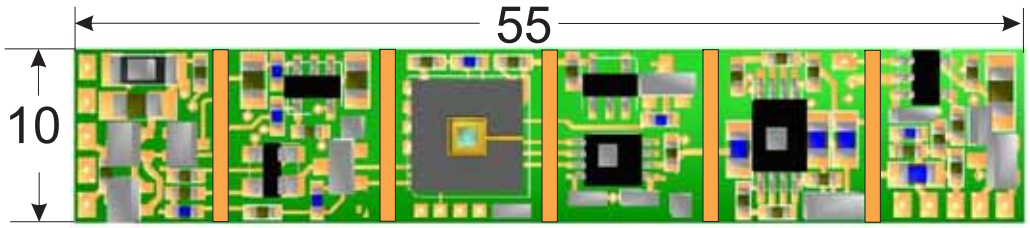
1 kHz	0,02	85	FM	-
10 kHz	0,01	125	PCM16	RMC
40 kHz	0,003	150		

*** PCM-Version**

Sensor Signal Amplifier Type SV-Flex



Flexsubstrat



1(2) Channel PCM Transmitter

- For strain gage, PT100, Thermocouple
- Sensitivity: 0,02 mV/V to 20 mV/V
- Bandwidth: 0 (10) Hz to 10 kHz
- Strain gage brigde supply: 6 V (3,3 V*)
- Strain gage bridge resistance: 350 Ω
- Transmission: inductive sensortelemetry PCM
- Integrated filter, Integrated temperatur sensor
- Resolution: 16 Bits
- Zero point drift: 0,02, (0,01, 0,003 option)
- Remote shunt calibration
- Remote gain, zero, auto zero with 16 Bit resolution (option)
- additonal temperature channel (option)
- Enviromental temperature r.: -25 to +85°C (125, 150, 160°C)
- Max load: 50 000 g (depending on fixing)
- Type: SV_Flex_<bandwidth>_<accuracy>_<temp>_<mod>_<rmc>

1 kHz	0,02	85	PCM16	-
10 kHz	0,01	125		RMC
	0,003	150		
	0,01	160		

Evaluation Unit (84TE)

for example

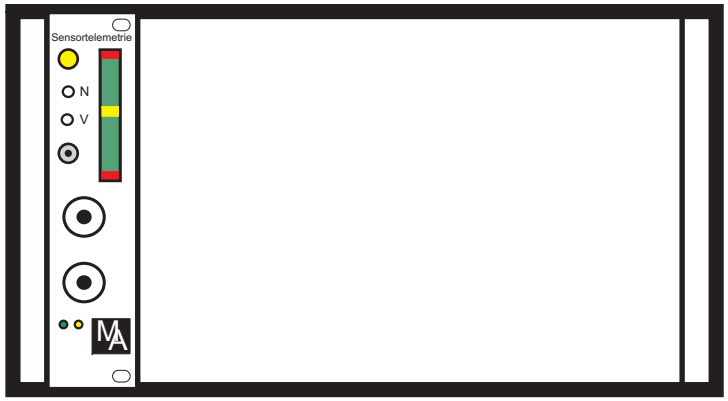
Front side

1 Channel FM/PCM Receiver

Bandwidth: 0 to 1 kHz (10 kHz,40 kHz)
Output: 0 to ±10 V, (0 (4) to 20 mA, frequency, binary, USB, CAN, TCP/IP)
RF power: 1 W, 3 W, 5 W
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Remote shunt calibration
Enviromental temperature range: -25 to +70°C
Supply: 9 to 36 V DC (board supply), 90..270 V AC 50/60 Hz
Type: AW_P_<bandwidth>_<supply>_<output>_<RF-power>_<temp>_<mod>_<Freq>

1 kHz	24B	U	1W	70	F	-
2 kHz	90/270AC	I	3W		PCM16	6
5 kHz		F	5W		PCM12	Funk
10 kHz		B	10 W			3,2
40 kHz		USB				
		CAN				
		TCP/IP				

Evaluation Unit (42TE)



for example

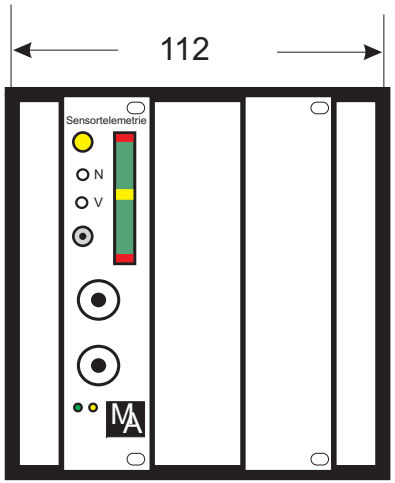
Front side

1 Channel FM/PCM Receiver

Bandwidth: 0 to 1 kHz (10 kHz,40 kHz)
Output: 0 to ±10 V, (0 (4) to 20 mA, frequency, binary, USB, CAN, TCP/IP)
RF power: 1 W, 3 W, 5 W
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Remote shunt calibration
Enviromental temperature range: -25 to +70°C
Supply: 9 to 36 V DC (board supply), 90..270 V AC 50/60 Hz
Type: AW_P_<bandwidth>_<supply>_<output>_<RF-power>_<temp>_<mod>_<Freq>

1 kHz	24B	U	1W	70	F	-
2 kHz	90/270AC	I	3W		PCM16	6
5 kHz		F	5W		PCM12	Funk
10 kHz		B	10 W			3,2
40 kHz		USB				
		CAN				
		TCP/IP				

Evaluation Unit (22TE)



for example

Front side

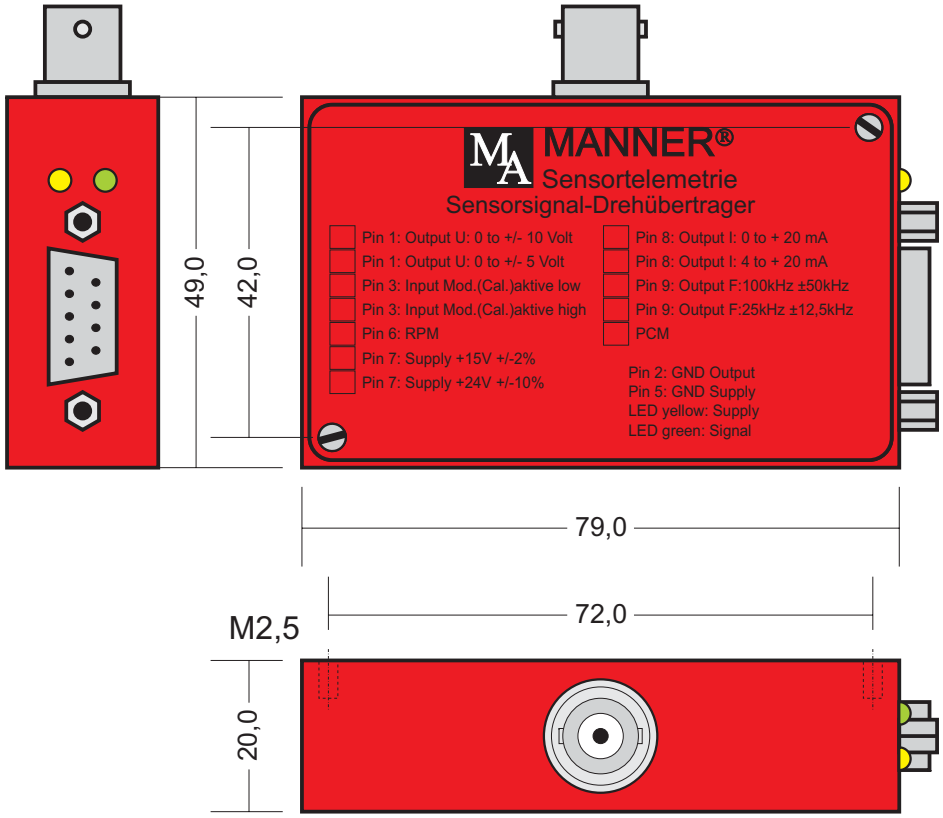
with CAN-Bus or TCP/IP Option available

1 Channel FM/PCM Receiver

Bandwidth: 0 to 1 kHz (10 kHz)
Output: 0 to ±10 V, (0 (4) to 20 mA, frequency, binary, USB, CAN, TCP/IP)
RF power: 1 W, 3 W, 5 W
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Remote shunt calibration
Enviromental temperature range: -25 to +70°C
Supply: 9 to 36 V DC (board supply), 90..270 V AC 50/60 Hz
Type: AW_P_<bandwidth>_<supply>_<output>_<RF-power>_<temp>_<mod>_<Freq>

1 kHz	24B	U	1W	70	F	-
2 kHz	90/270AC	I	3W		PCM16	6
5 kHz		F	5W		PCM12	Funk
10 kHz		B				3,2
40 kHz		USB				
		CAN				
		TCP/IP				

Evaluation Unit (AW_D)



Pin Assignment

of the D-Sub connector

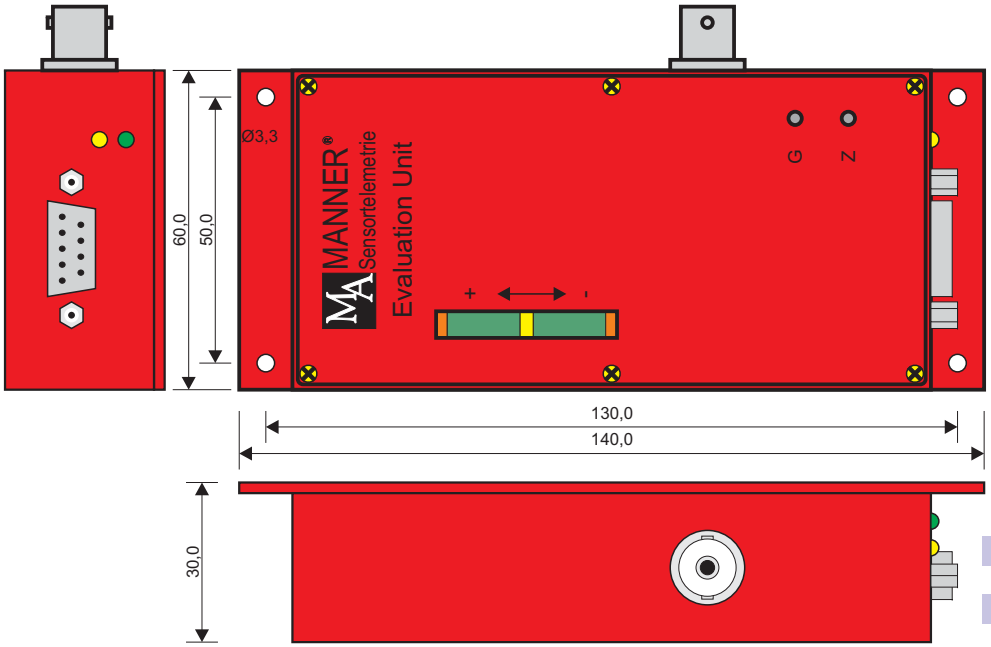
Pin 1	Output -10V to +10V
Pin 2	GND Output
Pin 3	Remote Calibration Signal (active low)
Pin 4	do not connect
Pin 5	GND Power Supply
Pin 6	do not connect
Pin 7	Power Supply 24 VDC ±10%
Pin 8	do not connect
Pin 9	do not connect

1 Channel FM/PCM Receiver

Bandwidth: 0 to 1 kHz (10 kHz)
Output: 0 to ±10 V, (0 (4) to 20 mA, frequency, binary, USB)
RF power: 1 W
Transmission: inductive sensortelemetry FM, PCM
Integrated filter
Resolution: 14 Bits, 16 Bits*
Remote shunt calibration
Enviromental temperature range: -10 to +70°C (-45 to +85°C)
Supply: 24 (±5%) V DC, 15 (±2%) V DC, 9 to 36 V DC (board supply)
Type: AW_D_<bandwidth>_<supply>_<output>_<RF-power>_<temp>_<mod>_<freq>_<Mont>

1 kHz	15	U	1W	70	F	-	-
10 kHz	24	I		-45/85	PCM16	6	Hu
	24B	F				Funk	
		B				3,2	
		USB					

Evaluation Unit (AW_M)



Pin Assignment

of the D-Sub connector

Pin 1	Output -10V to +10V
Pin 2	GND Output
Pin 3	Remote Calibration Signal (active low)
Pin 4	do not connect
Pin 5	GND Power Supply
Pin 6	do not connect
Pin 7	Power Supply 9 to 36 VDC
Pin 8	do not connect
Pin 9	do not connect

1 Channel FM/PCM Receiver

Bandwidth: 0 to 1 kHz (10 kHz)

Output: 0 to ±10 V, (0 (4) to 20 mA, frequency, binary, USB, CAN, TCP/IP)

RF power: 1 W, 3 W, 5 W

Transmission: inductive sensortelemetry FM, PCM, Radio

Integrated filter

Resolution: 14 Bits, 16 Bits*

Remote shunt calibration

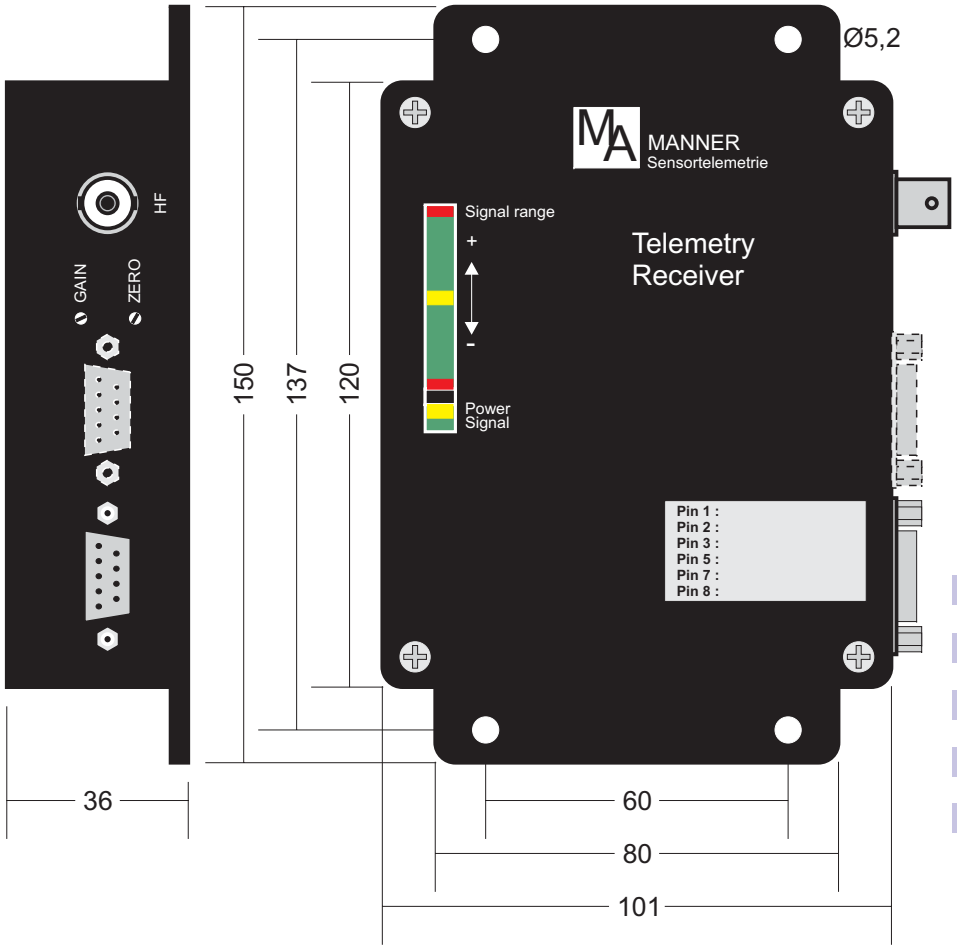
Enviromental temperature range: -10 to +70°C (-45 to +85°C)

Supply: 24 (±5%) V DC, 15 (±2%) V DC, 9 to 36 V DC (board supply)

Type: AW_P_<bandwidth>_<supply>_<output>_<RF-power>_<temp>_<mod>_<Freq>_<Mont>

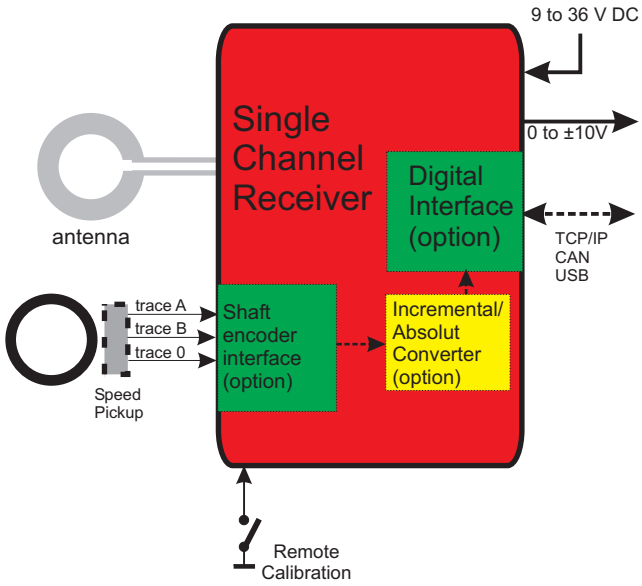
1 kHz	15	U	1W	70	F	-	-
2 kHz	24	I	3W	-45/85	PCM16	6	Hu
5 kHz	24B	F			PCM12	Funk	
10 kHz		B				3,2	
		USB					

Evaluation Unit (AW_P)



Pin Assignment
of the D-Sub connector

Pin 1	Output -10V to +10V
Pin 2	GND Output
Pin 3	RemoteShunt Cal (active low)
Pin 4	do not connect
Pin 5	GND Power Supply
Pin 6	do not connect
Pin 7	Power Supply 9 to 36 VDC
Pin 8	do not connect
Pin 9	do not connect



with CAN-Bus or TCP/IP Option available

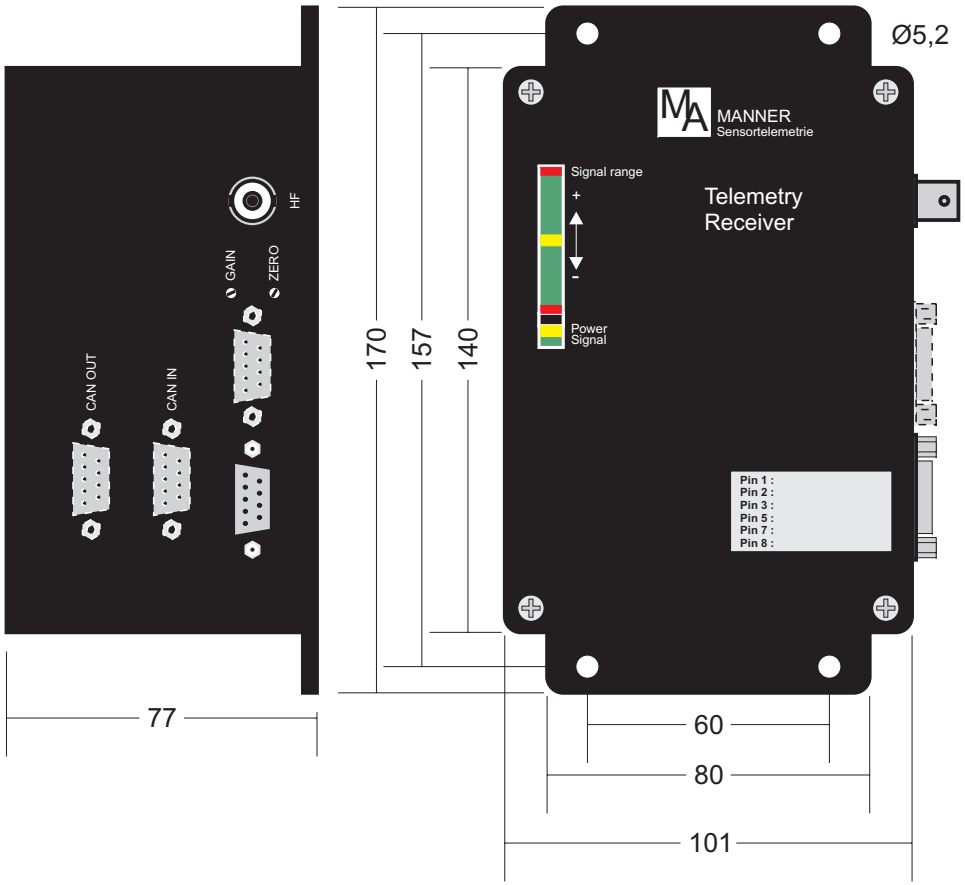
1 Channel FM/PCM Receiver

Bandwidth: 0 to 1 kHz (10 kHz)
Output: 0 to ±10 V, (0 (4) to 20 mA, frequency, binary, USB, CAN, TCP/IP)
RF power: 1 W, 3 W, 5 W
Transmission: inductive sensortelemetry FM, PCM, Radio
Integrated filter
Resolution: 14 Bits, 16 Bits*
Remote shunt calibration
Enviromental temperature range: -10 to +70°C (-45 to +85°C)
Supply: 24 (±5%) V DC, 15 (±2%) V DC, 9 to 36 V DC (board supply)
Type: AW_P_<bandwidth>_<supply>_<output>_<RF-power>_<temp>_<mod>_<Freq>_<Mont>

1 kHz	15	U	1W	70	F	-	-
2 kHz	24	I	3W	-45/85	PCM16	6	Hu
5 kHz	24B	F	5W		PCM12	Funk	
10 kHz		B				3,2	
		USB					
		CAN					
		TCP/IP					

Cover 'Zero' and 'Gain' screws after adjustment if necessary

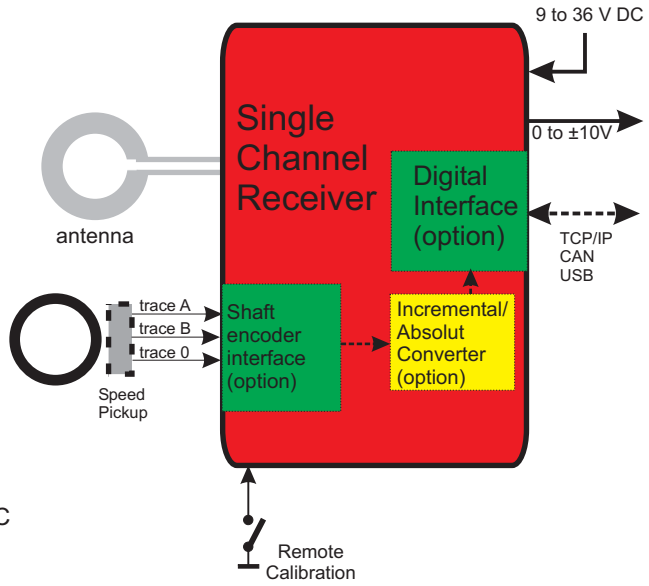
Evaluation Unit (AW_G)



Cover 'Zero' and 'Gain' screws after adjustment if necessary

Pin Assignment
of the D-Sub connector

Pin 1	Output -10V to +10V
Pin 2	GND Output
Pin 3	Shunt Cal. (active low)
Pin 4	do not connect
Pin 5	GND Power Supply
Pin 6	do not connect
Pin 7	Power Supply 9 to 36 VDC
Pin 8	do not connect
Pin 9	do not connect



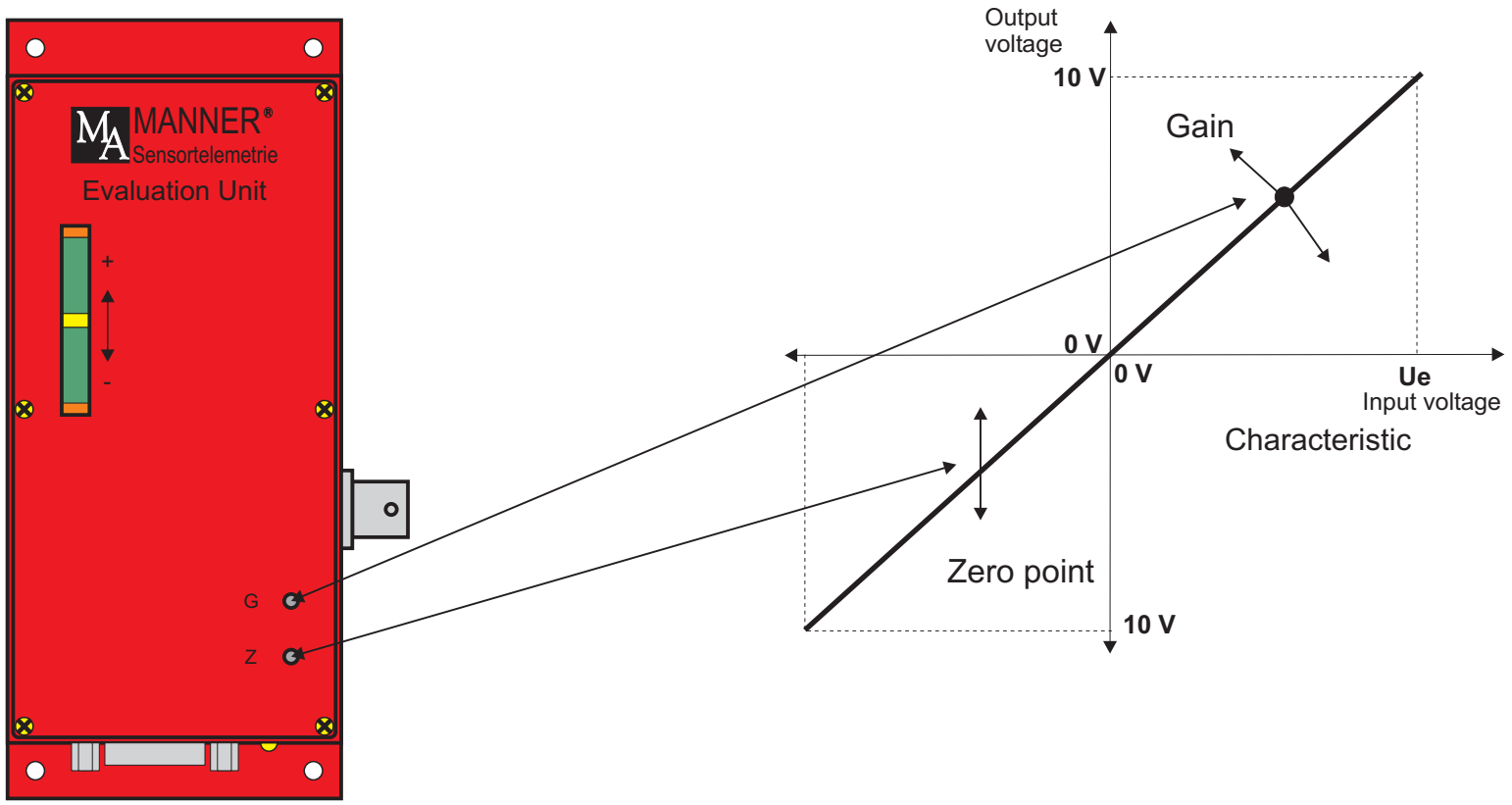
with CAN-Bus or TCP/IP Option available

1 Channel FM/PCM Receiver

Bandwidth: 0 to 1 kHz (10 kHz)
Output: 0 to ±10 V, (0 (4) to 20 mA, frequency, binary, USB, CAN, TCP/IP)
RF power: 1 W, 3 W, 5 W
Transmission: inductive sensortelemetry FM, PCM, Radio
Integrated filter
Resolution: 14 Bits, 16 Bits*
Remote shunt calibration
Enviromental temperature range: -10 to +70°C (-45 to +85°C)
Supply: 24 (±5%) V DC, 15 (±2%) V DC, 9 to 36 V DC (board supply)
Type: AW_P_<bandwidth>_<supply>_<output>_<RF-power>_<temp>_<mod>_<Freq>_<Mont>

1 kHz	15	U	1W	70	F	-	-
2 kHz	24	I	3W	-45/85	PCM16	6	Hu
5 kHz	24B	F			PCM12	Funk	
10 kHz		B				3,2	
		USB					
		CAN					
		TCP/IP					

Adjustment of Zero Point and Gain



Evaluation Unit

Configuration

(direct signal data acquisition,Torque, no analog output)